

Case 413 : Narrative

Case Vehicle (A): 2002 Chevrolet	Vehicle (B): 2004 Cadillac
Type: Silverado 1500 Z71, 4x4, 4-door pickup	Type: SRX, 4-door SUV
Driver: 32-year-old female	Driver: 45-year-old male
CDC: 12-FLAE-9	CDC: 99-9999-0

SITUATION

[1](#) [2](#) [3](#) [4](#) It was daylight, the sky was cloudy, and the road surface was dry and free of defects as case vehicle (A) was traveling north at an EDR-recorded speed of 55 mph (89 kph) in the northbound lane of a two-lane asphalt north-south road with a posted speed limit of 50 mph (80 kph). [5](#) [6](#) Vehicle (B) was traveling south at an unknown speed in the southbound lane of the same north-south road, [7](#) when it crossed the centerline and entered the northbound lane into the path of case vehicle (A). The driver of case vehicle (A) started to swerve to the right but was unable to avoid a collision and the front of vehicle (B) struck the left front of case vehicle (A). Both vehicles were towed from the scene due to damage.

The police accident report (PAR) indicates B- and C-level injuries, respectively, for the driver and right-front passenger of case vehicle (A). The PAR indicates B-level injuries for the driver of vehicle (B). The occupants of both vehicles were transported by ambulance to separate trauma facilities for treatment. The driver and right-front passenger of case vehicle (A) were treated and released. No injury information is available for the driver of vehicle (B).

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[8](#) [9](#) Direct damage to case vehicle (A) was primarily to the left front, which was crushed rearward. Damage began at the left-front bumper corner and extended 23-cm to the right, resulting in 16% vehicle overlap. The maximum frontal crush was 42 cm and occurred at the left-front bumper corner. [10](#) There was also damage along the left side, which began at the left-front bumper corner and extended 290-cm to the rear.

Vehicle (B) could not be located for inspection.

Using the missing-vehicle algorithm of the WinSMASH crash-reconstruction program and [11](#) [12](#) [13](#) [14](#) [15](#) crush profiles for case vehicle (A), the following impact severity was estimated:

		Estimated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	32 (20)	-31 (-19)	6 (3)
Vehicle (B)	delta V	35 (22)	-30 (-19)	-17 (-11)

Case vehicle (A) was equipped with an Event Data Recorder (EDR) that recorded a deployment event. The EDR data indicate that the vehicle speed was 54 mph (87 kph) two seconds before airbag

deployment with 0% throttle, that the driver seatbelt was buckled, that the dash-mounted airbag was not suppressed, and that the brakes were not applied. The maximum longitudinal velocity change during the impact was -19 mph (-31 kph) but there was loss of power and data recording stopped at 130 ms.

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

[16](#) [17](#) [18](#) Primary damage to case vehicle (A) was to the left front which was crushed rearward. The left side of the hood was crushed to the rear but it did not contact the windshield, which was cracked and deformed throughout due to impact forces. The left-front corner of the hood was elevated and the right-front corner and rear edge were slightly elevated. The hood latch was damaged and jammed, [19](#) the left hood hinge was bent but not separated, the right hood hinge was damaged but not separated, and the left-front headlight assembly was missing. The grille was displaced to the rear, the left side of the grille was damaged, the bumper was scraped and damaged on the left side, and the corners of the left-front bumper and grille were broken off.

[19](#) [20](#) On the left side, the fender was crushed to the rear, the front axle was damaged, the left-front wheel was separated from the axle, [21](#) the wheel rim was bent, the tire was gouged and deflated, and the left-side wheelbase was decreased by 8 cm. [22](#) The upper section of the left A-pillar was displaced rearward into a nearly vertical orientation and the lower section of the left A-pillar, the door sill, and the running board were also displaced rearward. [23](#) The front door had been pried open at the A-pillar by EMS and was detached. [24](#) [25](#) [26](#) There were longitudinal scrape marks along the top half of the driver door, the side rearview mirror was damaged, and the driver door and the left-rear window frame were buckled. [27](#) The left-rear door was jammed shut and crushed into the C-pillar and the left-side glazing was disintegrated. The left-front side of the cargo box panel was crushed to the rear but there was no other damage to the panel and there was no damage to the left-rear wheel.

[28](#) [29](#) On the right side, there was no damage to the fender but the front axle was damaged, the right-front wheel was off the axle, and there was a 3-cm increase in the right-side wheelbase. There was no damage to the right A-pillar, to the roof siderail, to the right-front door, to the side rearview mirror, to the right-front glazing, or to the door sill, but the running board was bowed out. There was no other damage to the right side of case vehicle (A).

[30](#) There was no damage to the rear of case vehicle (A).

Interior

[31](#) [32](#) This vehicle was equipped with steering-wheel and dash-mounted frontal-impact airbags and both deployed during the frontal impact with vehicle (B). In the driver seating area, there was no damage to the steering-wheel airbag module cover or to the airbag, but [33](#) [34](#) there were several bloodstains on the left side and the lower-left quadrant. [35](#) [36](#) [37](#) The upper rim of the steering wheel was deflected slightly forward, the upper-right steering-wheel spoke was detached at the hub, [38](#) and there were bloodstains on the steering-wheel rim, but there was no rotation of the steering column. [39](#) The roof headliner in the driver area was separated at the roof siderail, the upper section of the A-pillar was deformed, [40](#) the windshield header was buckled at the upper-left corner, and [41](#) the sunvisor bracket was broken. [42](#) [43](#) [44](#) The lower section of the left A-pillar and the left portion of the instrument panel were crushed and displaced rearward, the instrument panel cover was detached, and the upper-left air vent cover was broken but the control knobs and levers were operational. [45](#) There were bloodstains on the upper-left portion of the instrument panel and [46](#) [47](#) [48](#) there were bloodstains and scuffmarks on the knee bolster.

[49 50](#) The heater ductwork and wiring were damaged, the parking brake release handle was jammed, the parking brake was twisted, the kickpanel was crushed, and the floor and toepan were displaced to the rear. [51 52](#) The driver seatback was broken and detached at the floor-mounted support, and it was displaced to the rear and rotated to the left. [53 54](#) There were bloodstains on the seat head restraint and on the seat cushion, the cushion was loose and displaced to the rear, and the seat adjuster was jammed in a forward-track position. [55 56 57 58](#) There were several small dents in the driver door window frame, and the door interior panel, armrest, and control knobs were severely damaged and/or displaced.

[59 60](#) In the center-front area, there was no damage to the roof headliner, to the roof console, or to the windshield header. [61](#) The rearview mirror was intact but it was detached from the windshield. [62 63](#) The vertical console was displaced to the rear, the ashtray was jammed open, the CD access panel was facing up, and the CD player was out on the displaced floor-mounted console. The air ducts, control knobs, and levers on the dashboard in the center-front area were operational.

[64 65](#) In the right-front seating area, there was a small tear in the upper-left section of the dash-mounted airbag but there was no damage to the module cover. [66 67 68 69](#) There was no damage to the roof headliner, to the windshield header, to the sunvisor, to the A-pillar, to the upper vent outlet, or to the instrument panel, but the glove box would not close. [70](#) There was no damage to the seat head restraint, to the seatback, to the seat cushion, or to the seat adjuster, but the toepan was displaced to the rear.

[71 72 73 74](#) In the rear seating area, there was no damage to the glazing, to the bench seat, to the seat head restraints, to the roof headliner, to the C-pillars, or to the right-rear interior panel. In the left-rear seating area, the window frame was deformed and slightly displaced to the rear into the left-rear seat, and the interior door panel was deformed.

[75](#) The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
left front	toepan	14	to rear
	A-pillar	12	to rear
	instrument panel	12	to rear
center front	Instrument panel	6	to rear
right front	toepan	3	to rear
left rear	seatback	21	to rear

OCCUPANT KINEMATICS AND INJURIES

[76 31](#) The 163-cm, 66-kg (5-ft 4-in, 145-lb) 32-year-old female driver was using the three-point-belt and the steering-wheel airbag deployed. [77 78](#) The EMS had cut the seatbelt and the EDR data indicate that the driver seatbelt was buckled, confirming belt use by the driver.

On impact, the driver moved forward relative to the interior of the vehicle, into the three-point belt and the steering-wheel airbag. She sustained an abrasion to the left eyebrow, probably due to broken glass from the driver door, and she sustained a contusion on the right posterior basal aspect of the head, possibly due to contact with the head restraint. She sustained contusions across the chest, probably from loading by the shoulder belt, and contusions to the left and right wrists, possibly from contact by the deploying airbag. She sustained a contusion and a laceration to the left elbow, probably due to contact

with the broken interior panel of the driver door. She sustained contusions to both hips, probably due to loading by the lap belt, and contusions to both knees from contact with the knee bolster. She sustained a contusion to the left calf, possibly from contact with the seat cushion, a contusion to the distal aspect of the right leg, possibly from contact with the floor-mounted console, and contusions to the left ankle and left foot, possibly from contact with the kickpanel. She also ruptured an unspecified ligament in the left ankle, possibly from contact with the toepan and while bracing.

[64](#) [65](#) The 119-cm, 25-kg (3-ft 11-in, 54-lb) 9-year-old female right-front passenger was using the three-point belt and the dash-mounted airbag deployed. On impact, she moved forward relative to the interior of the vehicle, into the 3-point belt and airbag. [79](#) [80](#) There were slight webbing load marks on the continuous loop, which confirm belt use by the right-front passenger. She sustained a contusion around the right eye, probably from contact by the deploying airbag.

The following tables and [81](#) [82](#) attached drawings summarize the injuries sustained by the restrained driver and restrained right-front passenger of case vehicle (A).

Occupant: Driver	Age: 32 years	Gender: Female		
Restraints: 3-point belt; steering-wheel airbag	Stature: 163 cm (5 ft, 4 in)	Mass: 66 kg (145 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Abrasion, left eyebrow	1	—	Broken glass from driver door	—
Contusion, right posterior basal aspect of head	1	—	—	Head restraint
Contusions, across the chest	1	—	Shoulder belt	—
Contusion, left wrist	1	—	—	Airbag
Contusion, right wrist	1	—	—	Airbag
Contusion, left elbow	1	—	Door interior	—
Laceration, left elbow	1	—	Door interior	—
Contusion, left hip	1	—	Lap belt	—
Contusion, right hip	1	—	Lap belt	—
Contusion, left knee	1	Knee bolster	—	—
Contusion, right knee	1	Knee bolster	—	—

Contusion, left calf	1	—	—	Seat cushion
Contusion, distal aspect of right leg	1	—	—	Floor-mounted console
Contusion, left ankle	1	—	—	Kickpanel
Contusion, left foot	1	—	—	Kickpanel
Ruptured ligament, left ankle	2	—	—	Toepan, bracing
Maximum A.I.S. Level	2	—	—	—
Injury Severity Score	5	—	—	—

Occupant: Right front	Age: 9 years	Gender: Female		
Restraints: 3-point belt; dash-mounted airbag	Stature: 119 cm (3 ft, 11 in)	Mass: 25 kg (54 lb)		
Injury Description	A.I.S.	Injury Source		
—	—	Definite	Probable	Possible
Contusion, around right eye	1	—	Airbag	—
Maximum A.I.S. Level	1	—	—	—
Injury Severity Score	1	—	—	—

CASE NO.: 413

CASE VEHICLE: 2002 Chevrolet

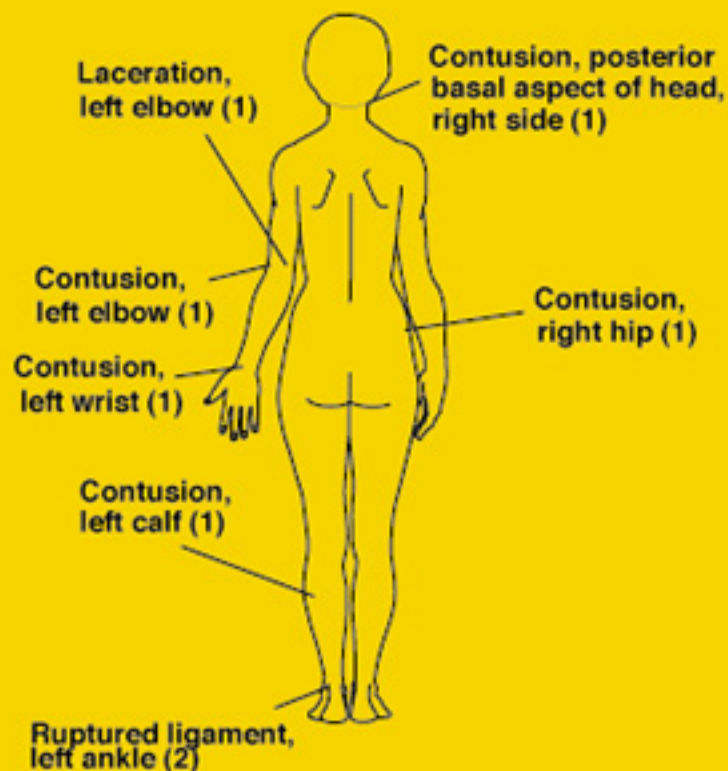
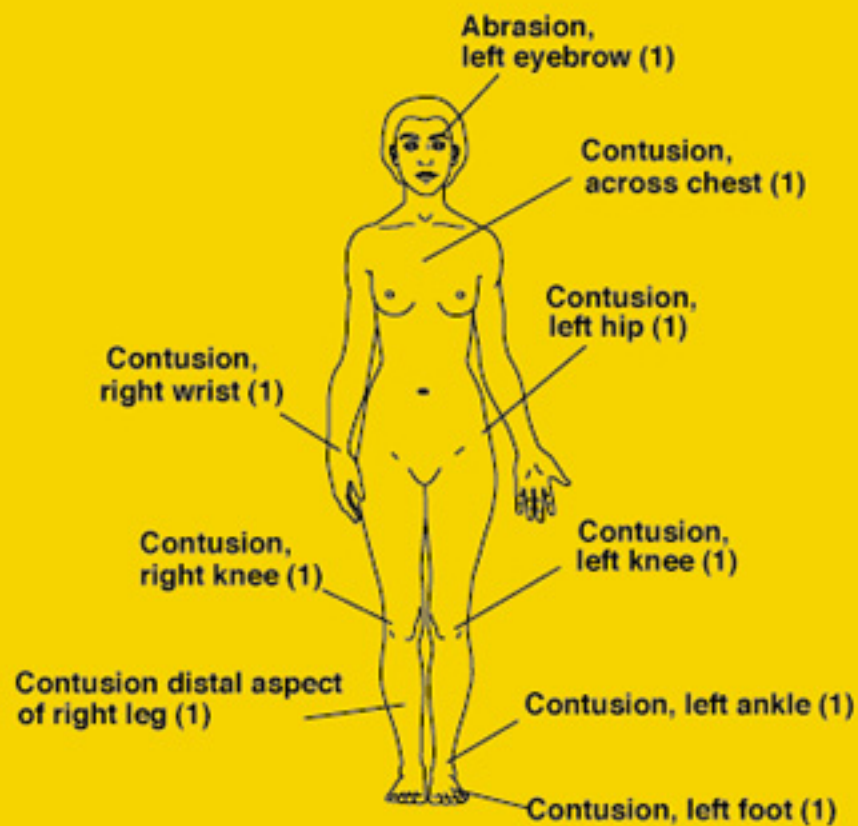
TYPE: Silverado 1500 Z71, 4x4, 4-door, pickup

OCCUPANT: (Driver) 32-year-old female

STATURE: 163 cm (5 ft, 4 in) MASS: 66 kg (145 lb)

RESTRAINTS: 3-point belt; steering-wheel airbag

SEVERITY: MAIS - 2 ISS - 5



CASE NO.: 413

CASE VEHICLE: 2002 Chevrolet

TYPE: Silverado 1500 Z71, 4x4, 4-door pickup

OCCUPANT: (Right front) 9-year-old female

STATURE: 119 cm (3 ft, 11 in) MASS: 25 kg (54 lb)

RESTRAINTS: 3-point belt; dash-mounted airbag

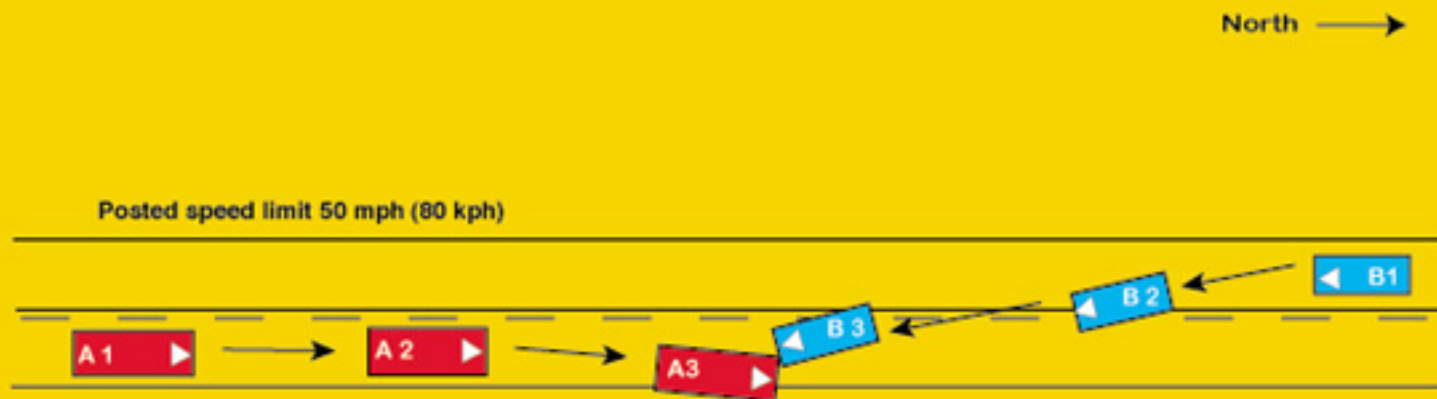
SEVERITY: MAIS - 1 ISS - 1

Contusion, around
right eye
(1)



Case No.: **413**
Case Vehicle (A): **2002 Chevrolet**
Type: **Silverado 1500 Z71, 4x4, 4-door pickup**
Driver: **32-year old female**
Vehicle (B): **2004 Cadillac SRX, 4-door SUV**

Light Conditions: **Daylight**
Weather: **Cloudy**
Road Surface: **Dry**
Road Construction: **Asphalt**



Vehicle Report

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General Conditions

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Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	1	Urban	more
V207 — Limited Access Highway	0	No	more
V208 — Road Total Lanes	2	2 lanes	more
V209 — Intersecting Road Total Lanes	8	Not applicable	more
V210 — Road Surface Type	1	Asphalt	more
V211 — Road Defects	0	No	more
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	10	Dry	more
V216 — Visibility Limitation	0	None	more
V217 — Visibility Obstruction	0	None	more
V218 — Speed Limit	5	80-85 km/h .. 50 mph	more
V219 — Precipitation Type	0	None	more
V220 — Precipitation Rate	8	Not applicable	more
V221 — Temperature	6	16 to 25 C .. 60 to 77 F	more

V222 — Crosswind	9	Unknown	more
V223 — Light Conditions	1	Daylight	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	0	No	more
V226 — Case Vehicle Rollover	0	No	more
V227 — Case Vehicle Ran Off Roadway	0	No	more
V228 — Moving Case Vehicle/Contacted Moving Vehicle	1	Yes	more
V229 — Case Vehicle/Contacted Stopped Vehicle	0	No	more
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	more
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	more
V232 — Any Fire in Crash	0	No	more
V233 — Max Police Severity-PAR	2	B - Non-Incapacitating Injury	more
V234 — Driver Alcohol Involvement	0	Had not been drinking	more
V235 — Driver Alcohol BAC	80	Not tested	more
V236 — Driver Impairment Mention	0	No	more
V237 — Driven/Towed From Scene	2	Towed Due to Damage	more

Other Vehicle

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Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	1GYDE63AS401	—	—
V302 — Other Vehicle Manufacturer/Body Code	11215	—	—
V303 — Other Vehicle Manufacturer	112	Cadillac	more
V304 — Other Vehicle Body Code	15	Long wheelbase utility vehicle (Carryall, Suburban)	more
V305 — Other Vehicle Make/Model	1070	—	—
V306 — Other Vehicle Model Year	2004	—	—
V307 — Other Vehicle Mass	002031 kg	—	—
V308 — Other Vehicle Number	0	No separate report	more
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	999	Unknown	more

V311 — Highest Police Injury Severity	2	B - Non-Incapacitating Injury	more
V312 — Other Vehicle Type	15	Large utility (wheelbase >107", e.g. Suburban)	more
V313 — Other Vehicle Wheelbase (cm)	296 cm	—	—
V314 — Average Track Width	158 cm	—	—
V315 — Overall Length	495 cm	—	—
V316 — Overall Width (OAW)	184 cm	—	—
V317 — Front Overhang (FOH)	999	Unknown	more
V318 — Rear Overhang (ROH)	999	Unknown	more
V319 — Undeformed End Width (UEW)	999	Unknown	more
V320 — Engine Displacement	4.6 l	—	—
V321 — Engine: Number of Cylinders	08	—	—
V322 — Direct Damage Length (DDL)	999	Unknown	more
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	more
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	more

Case Vehicle General



[Click for case vehicle figure](#)

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Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1GCEK19T22Z2	—	—
V402 — Manufacturer/Body Code	11312	—	—
V403 — Vehicle Manufacturer	113	Chevrolet	more
V404 — Vehicle Body Code	12	—	—
V405 — Make/Model Code	2902	Fleetside, Stepside, 1500, C/10	more
V406 — Model Year	2002	—	—
V407 — Vehicle Mass	002227 kg	—	—
V408 — Odometer Reading	888888	—	—
V409 — Number of Occupants	02	—	—
V410 — Traveling Speed	089 kph	—	—
V411 — Body Type	33	Pickup truck (large)	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	1	Body and frame	more
V414 — Transmission Type	1	Automatic	more

V415 — Transmission Lever Location	3	Column	more
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	more
V418 — Brake Type	3	Disc - all wheels	more
V419 — Brake Anti-lock Device	2	Four-wheel	more
V420 — Air Conditioning in Vehicle	8	Not currently collected	more
V421 — Drive Type	3	Four wheel	more
V422 — Dual Rear Wheels	0	No	more
V423 — Original Restraint System Type	3	Airbag	more
V424 — Equipped With Roll Bar	0	No	more
V425 — Roof Type	1	Solid	more
V426 — Wheelbase	365 cm	—	—
V427 — Anti-lacerative Glass	1	Windshield	more
V428 — Average Track Width	166 cm	—	—
V429 — Overall Length	578 cm	—	—
V430 — Overall Width (OAW)	199 cm	—	—
V431 — Front Overhang	095 cm	—	—
V432 — Rear Overhang	105 cm	—	—
V433 — Undeformed End Width (UEW)	180 cm	—	—
V434 — Engine Displacement	5.3 l	—	—
V435 — Engine: Number of Cylinders	08	—	—
V436 — Direct Damage Length (DDL)	023 cm	—	—
V437 — Front End Overlap % (FEO)	13	—	—
V438 — Vehicle Overlap % (VOL)	16	—	—

Case Vehicle Damage Description

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Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	042 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	more
	000 cm	No crush (or	

V503 — Maximum Crush - Rear		less than 1 cm.)	more
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	more
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	more
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	11	FRONT of case veh - FRONT of contacted Vehicle	more
V510 — Event 1 Object/Vehicle Contacted	15	Large utility (wheelbase >107", e.g. Suburban)	more
V511 — Event 2 Impact Location	8	No 2nd event	more
V512 — Event 2 Impact Configuration	88	No 2nd event	more
V513 — Event 2 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V514 — Event 3 Impact Location	8	No 3rd event	more
V515 — Event 3 Impact Configuration	88	No 3rd event	more
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V517 — Event 4 Impact Location	8	No 4th event	more
V518 — Event 4 Impact Configuration	88	No 4th event	more
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V520 — Event 5 Impact Location	8	No 5th event	more
V521 — Event 5 Impact Configuration	88	No 5th event	more
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V523 — Event 6 Impact Location	8	No 6th event	more

V524 — Event 6 Impact Configuration	88	No 6th event	more
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V526 — Event 7 Impact On Road	8	No 7th event	more
V527 — Event 7 Impact Configuration	88	No 7th event	more
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	more
V530 — Primary CDC Case Vehicle - impact speed	054	—	—
V531 — Primary CDC Case Vehicle - Estimated By	7	Other	more
V532 — Primary CDC Case Vehicle -crush	042	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	more
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	more
V535 — Primary CDC Case Vehicle letter 2 #1	12	L - Left (Front or Rear)	more
V536 — Primary CDC Case Vehicle letter 3 #1	01	A - All	more
V537 — Primary CDC Case Vehicle letter 4 #1	05	E - Corner (extends from corner to = or < 16 in [410mm])	more
V538 — Primary CDC Case Vehicle Extent #1	09	Extent 9	more
V539 — Primary CDC Case Vehicle -CDC #1	12FLAE9	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more

V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	more
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	more
V549 — Primary CDC Contacted Vehicle -crush	999	Unknown	more
V550 — Primary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	more
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V556 — Primary CDC Contacted Vehicle -CDC #1	9900000	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V563 — Primary CDC Contacted Vehicle -CDC #2	9800000	—	—
V564 — Secondary CDC Case Vehicle - Event No	8	Not applicable	more
V565 — Secondary CDC Case Vehicle - Impact Speed	998	Not Applicable	more

V566 — Secondary CDC Case Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	more
V567 — Secondary CDC Case Vehicle -crush	998	Not Applicable	more
V568 — Secondary CDC Case Vehicle -clock #1	98	Not Applicable	more
V569 — Secondary CDC Case Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V570 — Secondary CDC Case Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V571 — Secondary CDC Case Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V572 — Secondary CDC Case Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V573 — Secondary CDC Case Vehicle Extent #1	00	Missing Data/Not applicable	more
V574 — Secondary CDC Case Vehicle -CDC #1	9800000	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	more
V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	more
	8	Not applicable	

V583 — Secondary CDC Contacted Vehicle - Estimated By		(no vehicle/no impact)	more
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	more
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	more
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	more
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	more
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	more
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	more
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	more
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	more
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	more
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	more
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	more
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	more
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000	—	—

Crash Severity

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Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	032 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-031 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	0006 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0061 kJ	—	—
V606 — Primary Impact Case Vehicle - reconstruction	22	Reconstructed, moderate confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	035 kph	—	—
V609 — Primary	-030 kph		

Contacted Vehicle Reconstructed Longitudinal Delta-V		—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta- V	-017 kph	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0197 kJ	—	—
V612 — Case Vehicle Secondary Impact Number	8	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	888	N/A	more
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta- V	8888	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	8888	—	—
V617 — Secondary Case Vehicle	88	—	—

Reconstruction Note			
V618 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	more
V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	more
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	032 kph	—	—
V625 — Primary Case Vehicle Reconstructed Longitudinal	-031 kph	—	—

EBS			
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0006 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0061 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level	more
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V630 — Primary Contacted Vehicle Reconstruction Total EBS	035 kph	—	—
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	-030 kph	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	-017 kph	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	0197 kJ	—	—
V634 — Case	8		

Vehicle Secondary Impact Number		Not applicable	more
V635 — Secondary Case Vehicle Reconstruction Total EBS	888	N/A	more
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	8888	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	8888	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	8888	—	—
V639 — Secondary Case Vehicle Reconstruction Note	88	—	—
V640 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	more
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	more
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—

V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	more
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	023 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	042 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	144 cm	—	—
V650 — Case Vehicle Impact 1 C1	042 cm	—	—
V651 — Case Vehicle Impact 1 C2	018 cm	—	—
V652 — Case Vehicle Impact 1 C3	013 cm	—	—
V653 — Case Vehicle Impact 1 C4	009 cm	—	—
V654 — Case	000 cm		

Vehicle Impact 1 C5		No Crush	more
V655 — Case Vehicle Impact 1 C6	000 cm	No Crush	more
V656 — Case Vehicle Impact 1 +/- D	-079 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	2	—	—
V658 — Case Vehicle Impact 2 Plane	8	Not applicable	more
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V660 — Case Vehicle Impact 2 Max Crush	998	Not applicable	more
V661 — Case Vehicle Impact 2 Field-L	998	Not applicable	more
V662 — Case Vehicle Impact 2 C1	998	Not applicable	more
V663 — Case Vehicle Impact 2 C2	998	Not applicable	more
V664 — Case Vehicle Impact 2 C3	998	Not applicable	more
V665 — Case Vehicle Impact 2 C4	998	Not applicable	more
V666 — Case Vehicle Impact 2 C5	998	Not applicable	more
V667 — Case	998		

Vehicle Impact 2 C6		Not applicable	more
V668 — Case Vehicle Impact 2 +/- D	9998	—	—
V669 — Other Vehicle Reconstructed Impact Number	1	—	—
V670 — Other Vehicle Impact 1 Plane	9	Unknown	more
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	more
V672 — Other Vehicle Impact 1 Max Crush	999	Unknown	more
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	more
V674 — Other Vehicle Impact 1 C1	999	Unknown	more
V675 — Other Vehicle Impact 1 C2	999	Unknown	more
V676 — Other Vehicle Impact 1 C3	999	Unknown	more
V677 — Other Vehicle Impact 1 C4	999	Unknown	more
V678 — Other Vehicle Impact 1 C5	999	Unknown	more
V679 — Other Vehicle Impact 1 C6	999	Unknown	more
V680 — Other	0999 cm		

Vehicle Impact 1 +/- D		—	—
V681 — Other Vehicle Reconstructed Impact Number	2	—	—
V682 — Other Vehicle Impact 2 Plane	8	Not applicable	more
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	998	Not applicable	more
V684 — Other Vehicle Impact 2 Max Crush	998	Not applicable	more
V685 — Other Vehicle Impact 2 Field-L	998	Not applicable	more
V686 — Other Vehicle Impact 2 C1	998	Not applicable	more
V687 — Other Vehicle Impact 2 C2	998	Not applicable	more
V688 — Other Vehicle Impact 2 C3	998	Not applicable	more
V689 — Other Vehicle Impact 2 C4	998	Not applicable	more
V690 — Other Vehicle Impact 2 C5	998	Not applicable	more
V691 — Other Vehicle Impact 2 C6	998	Not applicable	more
V692 — Other Vehicle Impact 2 +/- D	9998	—	—

Case Vehicle Tires & Rims

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Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	1	Yes	more
V702 — Right Front Wheel Damaged	0	No	more
V703 — Right Rear Wheel Damaged	0	No	more
V704 — Left Rear Wheel Damaged	0	No	more
V705 — Left Front Tire Tread Type	4	All Weather	more
V706 — Right Front Tire Tread Type	4	All Weather	more
V707 — Right Rear Tire Tread Type	4	All Weather	more
V708 — Left Rear Tire Tread Type	4	All Weather	more
V709 — Left Front Carcass Construction	3	Radial	more
V710 — Right Front Carcass Construction	3	Radial	more
V711 — Right Rear Carcass Construction	3	Radial	more
V712 — Left Rear Carcass Construction	3	Radial	more
V717 — Left Front Tire Size	P265175R16	—	—
V718 — Right Front Tire Size	P265175R16	—	—
V719 — Right Rear Tire Size	P265175R16	—	—
V720 — Left Rear Tire Size	P265175R16	—	—

Case Vehicle Fuel, Tank, Fire

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Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	more
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	more
V803 — Main Filler Cap Location	313	Left of frame laterally - above vertically	more



V804 — Main Tank Material	1	Steel	more
V805 — Aux Tank Type	8	Not applicable (not equipped)	more
V806 — Aux Tank Location	888	Not applicable (not equipped)	more
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	more
V808 — Aux Tank Material	8	Not applicable	more
V901 — Fuel Leakage From Crash	0	No	more
V1001 — Fire In Or On Case Vehicle	0	No	more

Case Vehicle Exterior

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Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	0	No	more
V1102 — Hood Latch Damaged	1	Yes	more
V1103 — Hood Latch Jammed	1	Yes	more
V1104 — Left Hood Hinge Damaged	1	Yes	more
V1105 — Left Hood Hinge Separated	0	No	more
V1106 — Right Hood Hinge Damaged	1	Yes	more
V1107 — Right Hood Hinge Separated	0	No	more
V1108 — Hood Remained On Vehicle	1	Yes	more
V1109 — Rear Hood Edge Elevated	1	Yes	more
V1110 — Edge Contacted Windshield	0	No	more
V1111 — Edge Penetrated Windshield	8	Not applicable	more
V1112 — Hood Latch Location	1	Front of Vehicle	more
V1113 — Eng/Transmissn Mount Separation	0	No	more
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng Column Coupling Separated	9	Unknown	more
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more
V1119 — Left Side Body Mount Separation	0	No	more
V1120 — Upper Left A-pillar Separation	4	No separation, but damaged	more

V1121 — Lower Left A-pillar Separation	4	No separation, but damaged	more
V1122 — Upper Left B-pillar Separation	8	Not applicable (not equipped)	more
V1123 — Lower Left B-pillar Separation	8	Not applicable (not equipped)	more
V1124 — Upper Left C-pillar Separation	4	No separation, but damaged	more
V1125 — Lower Left C-pillar Separation	4	No separation, but damaged	more
V1126 — Upper Left D-pillar Separation	8	Not applicable (not equipped)	more
V1127 — Lower Left D-pillar Separation	8	Not applicable (not equipped)	more
V1128 — Left Front Door Opening Cause	0	Door did not open	more
V1129 — Left Rear Door Opening Cause	0	Door did not open	more
V1130 — Left Front Door Jammed Closed	1	Yes	more
V1131 — Left Rear Door Jammed Closed	1	Yes	more
V1132 — Rear Door Type	0	No door (includes pickups)	more
V1133 — Rear Door Opening Cause	8	Not applicable (no rear door)	more
V1134 — Rear Door Jammed Closed	8	Not applicable (no rear door)	more
V1135 — Luggage Partition Damagd	8	Not applicable	more
V1136 — Spare Tire Status	8	Not collected	more
V1137 — Trailer Hitch Type	3	Bumper and frame (but non-equalizing)	more
V1138 — Trailer Type	0	No trailer	more
V1139 — Right Side Body Mount Separation	0	No	more
V1140 — Upper Right A-pillar Separation	0	No	more
V1141 — Lower Right A-pillar Separation	0	No	more
V1142 — Upper Right B-pillar Separation	8	Not applicable (not equipped)	more
V1143 — Lower Right B-pillar Separation	8	Not applicable (not equipped)	more
V1144 — Upper Right C-pillar Separation	0	No	more

V1145 — Lower Right C-pillar Separation	0	No	more
V1146 — Upper Right D-pillar Separation	8	Not applicable (not equipped)	more
V1147 — Lower Right D-pillar Separation	8	Not applicable (not equipped)	more
V1148 — Right Front Door Opening Cause	00	Door did not open	more
V1149 — Right Rear Door Opening Cause	00	Door did not open	more
V1150 — Right Front Door Jammed Closed	0	No	more
V1151 — Right Rear Door Jammed Closed	0	No	more
V1152 — Van Rear Door Type	8	Not applicable (not a van)	more
V1153 — Windshield Cracked	 Click for windshield damage figure	Yes	more
V1154 — Windshield Broken	0	No	more
V1155 — Windshield Cracked or Broken by Occupant	0	No	more
V1156 — Bond Separation Extent	0	None	more
V1157 — Windshield Code	 Click for windshield code figure	—	—
V1158 — Did Sun/T Roof Open	8	Not Applicable	more

Case Vehicle Steering Column/Rim

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Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	1	Deformed slightly	more
V1202 — Number of Steering Wheel Spokes	4	4 spokes	more
V1203 — Steering Wheel Spoke	1		

Damage		Deformed slightly	more
V1204 — Column Tilt Feature	3	Middle	more
V1205 — Column Swing-away Feature	0	Not equipped	more
V1206 — Column Telescoping Feature	0	Not equipped	more
V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	0	No apparent rotation	more
V1213 — Column Lateral Rotation	0	No apparent rotation	more
V1214 — Steering Wheel Hub Damage	1	Occupant contact	more

Case Vehicle Intrusion



Click for intrusion figures

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Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	1	Yes	more
V1302 — Was Intrusion Catastrophic	0	No	more
V1303 — Intrusion Number 01	01	Intrusion #1	more
V1304 — Intrusion 01 Occupant Space Number	11	First row, Left seat	more
V1305 — Intrusion 01 Intruding Object	01	Instrument panel	more
V1306 — Intrusion 01 Assoc Event Number	1	Event #1	more
V1307 — Intrusion 01 Max Intrusion X-axis	12 cm	—	—
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1310 — Intrusion 01 Occupant	00		

Number		No contact or no intrusion	more
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1313 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1314 — Intrusion Number 02	02	Intrusion #2	more
V1315 — Intrusion 02 Occupant Space Number	11	First row, Left seat	more
V1316 — Intrusion 02 Intruding Object	08	A-pillar	more
V1317 — Intrusion 02 Assoc Event Number	1	Event #1	more
V1318 — Intrusion 02 Max Intrusion X-axis	12 cm	—	—
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1324 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1325 — Intrusion Number 03	03	Intrusion #3	more
V1326 — Intrusion 03 Occupant Space Number	11	First row, Left seat	more
V1327 — Intrusion 03 Intruding Object	03	Toe pan	more
V1328 — Intrusion 03 Assoc Event Number	1	Event #1	more
V1329 — Intrusion 03 Max Intrusion X-axis	14 cm	—	—
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1332 — Intrusion 03 Occupant Number	01	Occupant number 1, contact	more
V1333 — Intrusion 03 Injury Number	16	—	—
V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	more

V1335 — Intrusion 03 Injury Number	00	No injury or no intrusion	more
V1336 — Intrusion Number 04	04	Intrusion #4	more
V1337 — Intrusion 04 Occupant Space Number	12	First row, Center seat	more
V1338 — Intrusion 04 Intruding Object	01	Instrument panel	more
V1339 — Intrusion 04 Assoc Event Number	1	Event #1	more
V1340 — Intrusion 04 Max Intrusion X-axis	06 cm	—	—
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	more
V1346 — Intrusion 04 Injury Number	00	No injury or no intrusion	more
V1347 — Intrusion Number 05	05	Intrusion #5	more
V1348 — Intrusion 05 Occupant Space Number	13	First row, Right seat	more
V1349 — Intrusion 05 Intruding Object	03	Toe pan	more
V1350 — Intrusion 05 Assoc Event Number	1	Event #1	more
V1351 — Intrusion 05 Max Intrusion X-axis	03 cm	—	—
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1358 — Intrusion Number 06	06	Intrusion #6	more
V1359 — Intrusion 06 Occupant Space Number	21	Second row, Left seat	more

V1360 — Intrusion 06 Intruding Object	17	Front seat-back surface / seat-back back surface	more
V1361 — Intrusion 06 Assoc Event Number	1	Event #1	more
V1362 — Intrusion 06 Max Intrusion X-axis	21 cm	—	—
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	more
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1368 — Intrusion 06 Injury Number	00	No injury or no intrusion	more
V1369 — Intrusion Number 07	00	No Intrusion, None	more
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	more
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	more
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	more
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	more
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	more
V1380 — Intrusion Number 08	00	No Intrusion, None	more
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	more
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	more
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	more

V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	more
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	more
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	more
V1391 — Intrusion Number 09	00	No Intrusion, None	more
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	more
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	more
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	more
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	more
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	more
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	more
V1402 — Intrusion Number 10	00	No Intrusion, None	more
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	more
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	more
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	more
V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1407 — Intrusion 10 Max Intrusion	00 cm		

Y-axis		0 cm or No Intrusion	more
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	more
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	more
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	more
V1413 — Door Intrusion Number 01	88	Not Applicable	more
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	more
V1415 — Door Intrusion Number 02	88	Not Applicable	more
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	more
V1417 — Door Intrusion Number 03	88	Not Applicable	more
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	more
V1419 — Door Intrusion 01 Component	88	Not Applicable	more
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	more
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	more
V1422 — Door Intrusion 02 Component	88	Not Applicable	more
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	more
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	more
V1425 — Door Intrusion 03 Component	88	Not Applicable	more
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	more
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	more
V1428 — Door Intrusion 04 Component	88	Not Applicable	more
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	more
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	more

**Case Vehicle
Airbag(s)**



[Click for Driver airbag figure](#)



[Click for Passenger airbag figure](#)

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Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	more
V1502 — Driver Airbag Deployed	1	Yes	more
V1503 — Driver Airbag Condition	0	No Damage	more
V1504 — Passenger Airbag Equip	1	Yes	more
V1505 — Passenger Airbag Deployed	1	Yes	more
V1506 — Passenger Airbag Condition	2	Split or Torn	more
V1507 — Steering Wheel Airbag Tether	1	Yes	more
V1508 — Driver Airbag Marked By Contact	1	Yes	more
V1509 — Passenger Airbag Tether	0	No	more
V1510 — Passenger Airbag Marked By Contact	0	No	more

**Case Vehicle
Interior**

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Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	4	Yes, occupant contact	more
V1602 — Right Front Door Damaged	0	No	more
V1603 — Left Front Hardware Damaged	4	Yes, occupant contact	more
V1604 — Right Front Hardware Damaged	0	No	more
V1605 — Left Front Armrest Damaged	4	Yes, occupant contact	more
V1606 — Right Front Armrest Damaged	0	No	more
V1607 — Left Front Glass Damaged	1	Yes	more
V1608 — Right Front Glass Damaged	1	Yes	more
V1609 — Left Rear Door Area Damaged	1	Yes	more

V1610 — Right Rear Door Area Damaged	0	No	more
V1611 — Left Rear Hardware Damaged	1	Yes	more
V1612 — Right Rear Hardware Damaged	0	No	more
V1613 — Left Rear Armrest Damaged	0	No	more
V1614 — Right Rear Armrest Damaged	0	No	more
V1615 — Left Rear Glass Damaged	1	Yes	more
V1616 — Right Rear Glass Damaged	0	No	more
V1617 — Left Roof Side Rail Damaged	1	Yes	more
V1618 — Right Roof Side Rail Damaged	0	No	more
V1619 — Left B-pillar Damaged	8	Not applicable	more
V1620 — Right B-pillar Damaged	8	Not applicable	more
V1621 — Left C-pillar Damaged	1	Yes	more
V1622 — Right C-pillar Damaged	0	No	more
V1623 — Left D-pillar Damaged	8	Not applicable	more
V1624 — Right D-pillar Damaged	8	Not applicable	more
V1625 — Left Headlining Damaged	1	Yes	more
V1626 — Right Headlining Damaged	0	No	more
V1627 — Left Roof Structure Damaged	0	No	more
V1628 — Right Roof Structure Damaged	0	No	more
V1629 — Left T/Sun Roof Damaged	8	Not applicable	more
V1630 — Right T/Sun Roof Damaged	8	Not applicable	more
V1631 — Other Left Side Item Damaged	8	Not applicable	more
V1632 — Other Right Side Item Damaged	8	Not applicable	more
V1633 — Foot Controls Damaged	1	Yes	more
V1634 — Ignition Key Damaged	0	No	more
V1635 — Rear View Mirror Damaged	1	Yes	more
V1636 — Sunvisor/Fitting Damaged	5	Left side only	more
V1637 — Windshield Molding Damaged	1	Yes	more
V1638 — Left A-pillar Damaged	1	Yes	more

V1639 — Right A-pillar Damaged	0	No	more
V1640 — Center Console Damaged	3	No, occupant contact	more
V1641 — Transmission Lever Damaged	0	No	more
V1642 — Horn/Spoke Shroud Damagd	1	Yes	more
V1643 — Upper Panel Damaged	1	Yes	more
V1644 — Mid Panel Damaged	1	Yes	more
V1645 — Lower Panel Damaged	4	Yes, occupant contact	more
V1646 — Ashtray Damaged	1	Yes	more
V1647 — Control Knob/Lever Damaged	1	Yes	more
V1648 — Glove Compartment Area Damaged	1	Yes	more
V1649 — Instruments Damaged	0	No	more
V1650 — Park Brake Release Damaged	1	Yes	more
V1651 — Park Brake Pedal Damaged	1	Yes	more
V1652 — A/C Or Upper Vent Damaged	1	Yes	more
V1653 — Heater Or A/C Duct Damaged	1	Yes	more
V1654 — Radio Damaged	0	No	more
V1655 — Other Item Damaged	8	Not applicable	more
V1656 — Rear Window Damaged	0	No	more
V1657 — Rear Window Header Damaged	0	No	more
V1658 — Vertical Console Damaged	4	Yes, occupant contact	more
V1659 — Roof Console Damaged	0	No	more

Case Vehicle Seats

[Back to Top](#)

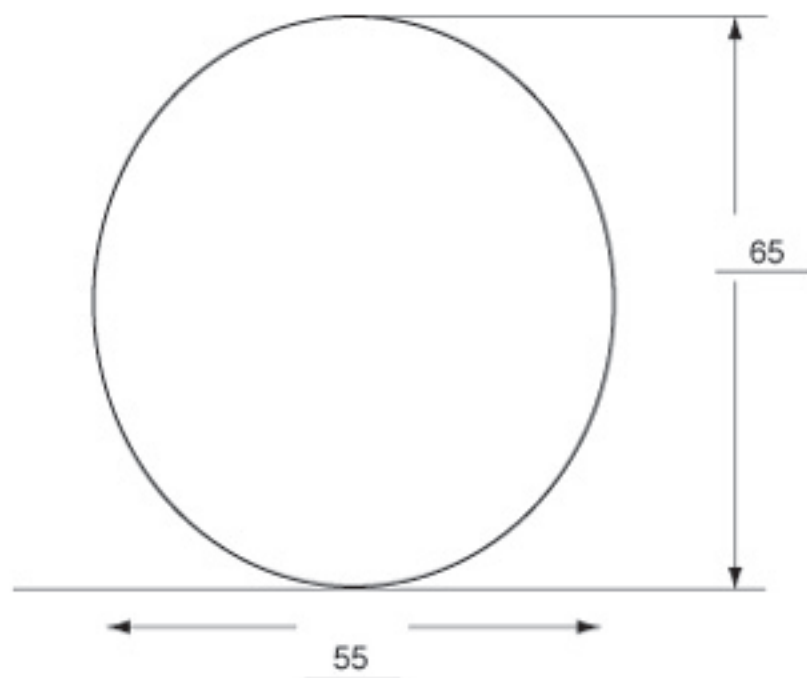
Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	more
V1702 — Passenger Front Seat Type	05	Bucket	more
V1703 — Driver Seat Mount Type	1	Standard	more
V1704 — Passenger Seat Mount Type	1	Standard	more
V1705 — Driver Swivel	0		

Mechanism Equipped		No	more
V1706 — Passenger Swivel Mechanism Equipped	0	No	more
V1707 — Driver Seat Original Equipment	1	Yes	more
V1708 — Passenger Seat Original Equipment	1	Yes	more
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	more
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	more
V1711 — Driver Seat Damage	3	Backrest and cushion damaged	more
V1712 — Passenger Seat Damage	0	None	more
V1713 — Center Front Armrest Damaged	0	No	more
V1714 — Driver Seat Rotation	5	Multiple rotations	more
V1715 — Passenger Seat Rotation	0	None apparent	more
V1716 — Driver Seat-back Type	3	Reclining	more
V1717 — Passenger Seat-back Type	3	Reclining	more
V1718 — Driver Seat-back Lock Type	1	Manual	more
V1719 — Passenger Seat-back Lock Type	1	Manual	more
V1720 — Driver Seat-back Lock Held	1	Yes	more
V1721 — Passenger Seat-back Lock Held	1	Yes	more
V1722 — Driver Recliner Mechanism Held	1	Yes	more
V1723 — Passenger Recliner Mechanism Held	1	Yes	more
V1724 — Driver Head Restraint Type	1	Adjustable	more
V1725 — Passenger Head Restraint Type	1	Adjustable	more
V1726 — Driver Head Rest Removed	0	No	more
V1727 — Passenger Head Rest Removed	0	No	more
V1728 — Driver Head Rest Adjustment	2	Down	more

V1729 — Passenger Head Rest Adjustment	2	Down	more
V1730 — Driver Head Rest Damage	0	None	more
V1731 — Passenger Head Rest Damage	0	None	more
V1732 — Driver Seat Adjustment Type	2	Power	more
V1733 — Passenger Seat Adjustment Type	2	Power	more
V1734 — Driver Seat Adjustment Provided	2	4-way	more
V1735 — Passenger Seat Adjustment Provided	2	4-way	more
V1736 — Driver Seat Adjuster Damage	2	Deformed (released/jammed)	more
V1737 — Passenger Seat Adjuster Damage	0	None	more
V1738 — Driver Seat Adjuster Separation	0	None	more
V1739 — Passenger Seat Adjuster Separation	8	Not applicable	more
V1740 — Driver Seat Pre-crash Position	1	Forward	more
V1741 — Passenger Seat Pre-crash Position	1	Forward	more
V1742 — Left Rear Seat Type	2	Folding	more
V1743 — Right Rear Seat Type	2	Folding	more
V1744 — Left Rear Seat Damaged	0	None	more
V1745 — Right Rear Seat Damaged	0	None	more
V1746 — Center Rear Armrest Damaged	0	No	more
V1747 — Left Rear Seat-back Left Lock Equipped	1	Yes	more
V1748 — Right Rear Seat-back Left Lock Equipped	8	Not applicable	more
V1749 — Left Rear Seat-back Left Lock Held	1	Yes	more
V1750 — Right Rear Seat-back Left Lock Held	8	Not applicable	more
V1751 — Left Rear Seat-back Right Lock Equipped	8	Not applicable	more

V1752 — Right Rear Seat-back Right Lock Equipped	1	Yes	more
V1753 — Left Rear Seat-back Right Lock Held	8	Not applicable	more
V1754 — Right Rear Seat-back Right Lock Held	1	Yes	more
V1755 — Left 3rd Seat Equipped	0	No	more
V1756 — Right 3rd Seat Equipped	0	No	more
V1757 — Left 3rd Seat Backrest Damaged	8	Not applicable	more
V1758 — Right 3rd Seat Backrest Damaged	8	Not applicable	more
V1759 — Left 3rd Seat Cushion Damaged	8	Not applicable	more
V1760 — Right 3rd Seat Cushion Damaged	8	Not applicable	more
V1761 — Rear Head Restraints	1	Equipped	more

Driver Airbag

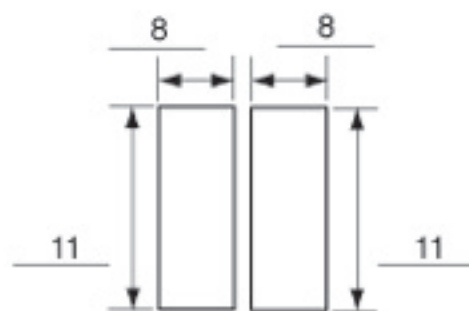


Vents: ☒ Y ☐ N
if yes, how many: 2

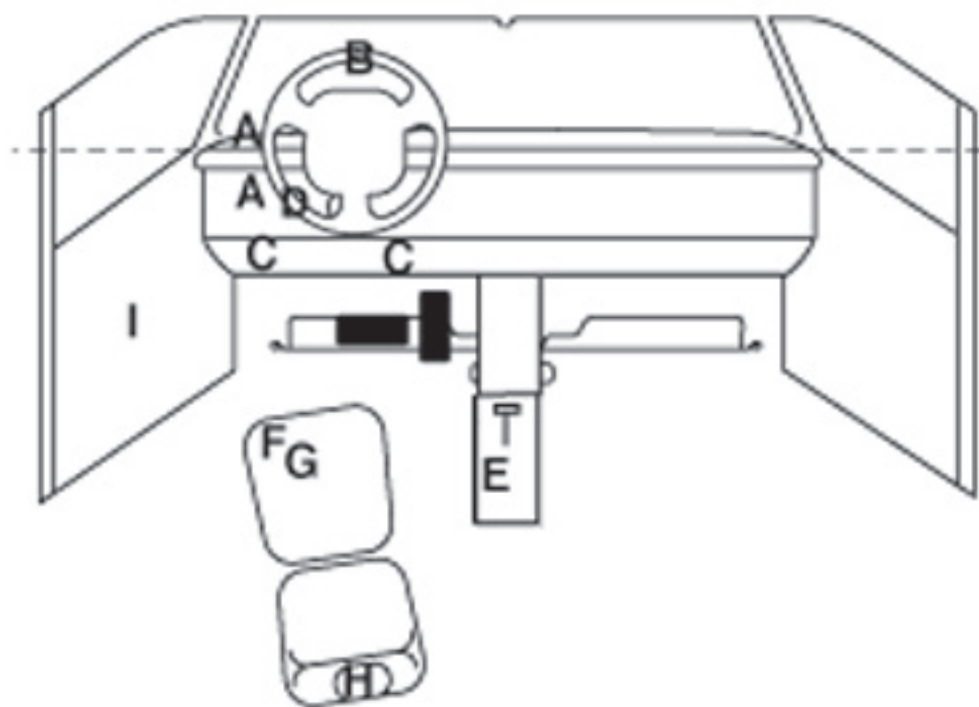
@ 11 & 2 o'clock

Tethers: ☒ Y ☐ N
if yes, how many: 4

Driver Airbag Doors



I-Pattern



A= Instrument panel, bloodstains

B= Steering wheel, deformation

C= Knee bolster, scuffmarks

D= Steering wheel, bloodstain

E= Center console, scrapemark

F= Seat cushion, gouge mark

G= Seat cushion, bloodstain

H= Head restraint, bloodstain

I= Driver door, scuffmark

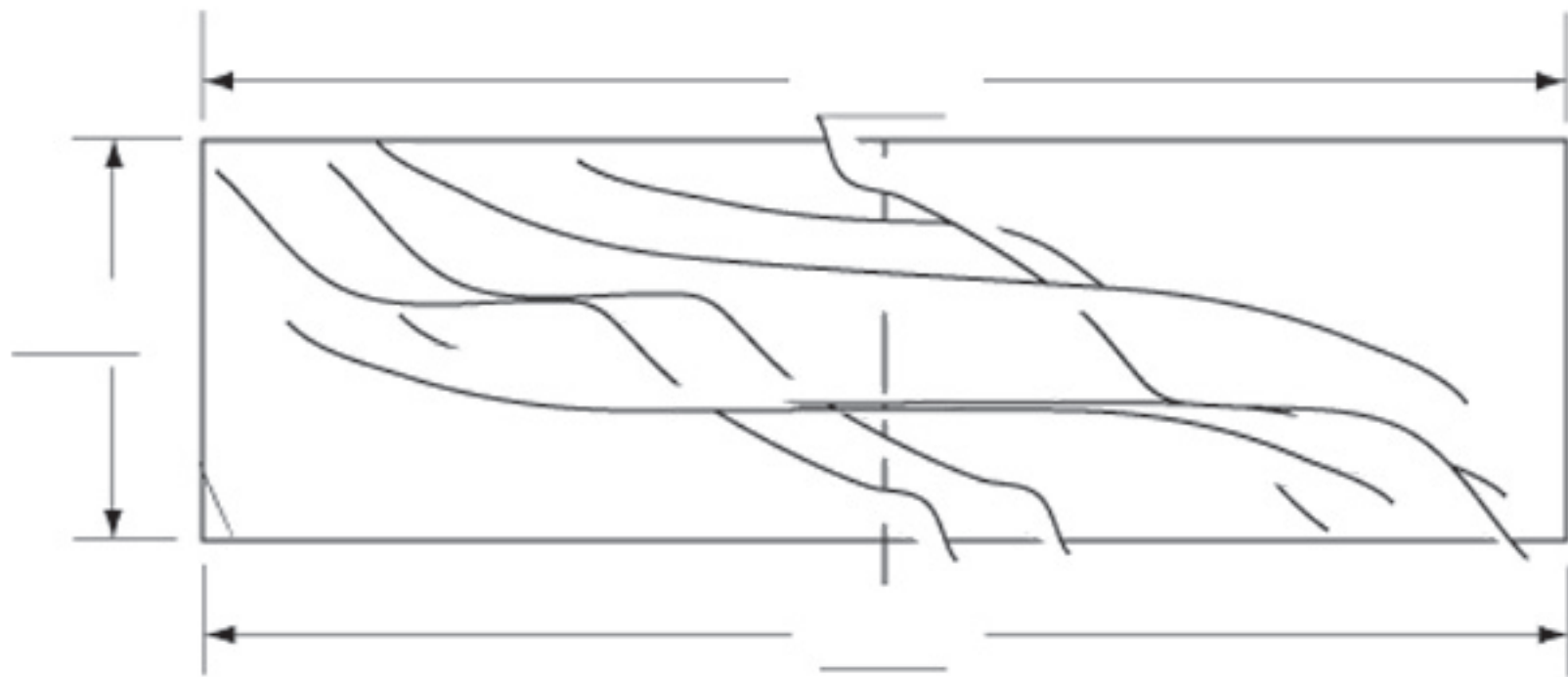
1 = Definitely 2 = Probably 3 = Possible

INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)					Dominant Crush Direction
		Comparison Value	–	Intruded Value	=	Intrusion	
11	Instrument panel	164	–	152	=	12	To rear
11	A-pillar	162	–	150	=	12	To rear
11	Toepan	59	–	45	=	14	To rear
12	Instrument panel	160	–	154	=	6	To rear
13	Toepan	57	–	54	=	3	To rear
21	Seatback	74	–	53	=	21	To rear
			–		=		
			–		=		
			–		=		

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	IP	1	Unk	Bloodstains	2
B	Steering wheel	1	Hands	Deformation	2
C	Knee bolster	1	Knees	Scuffmarks	1
D	Steering wheel	1	Unk	Bloodstains	2
E	Center console	1	Knee	Scrape mark	2
F	Seat cushion	1	Leg	Gouge mark	1
G	Seat cushion	1	Leg	Bloodstain	1
H	Head restraint	1	Head	Bloodstain	2
I	Driver door	1	Leg	Scuffmark	2
J					
K					
L					

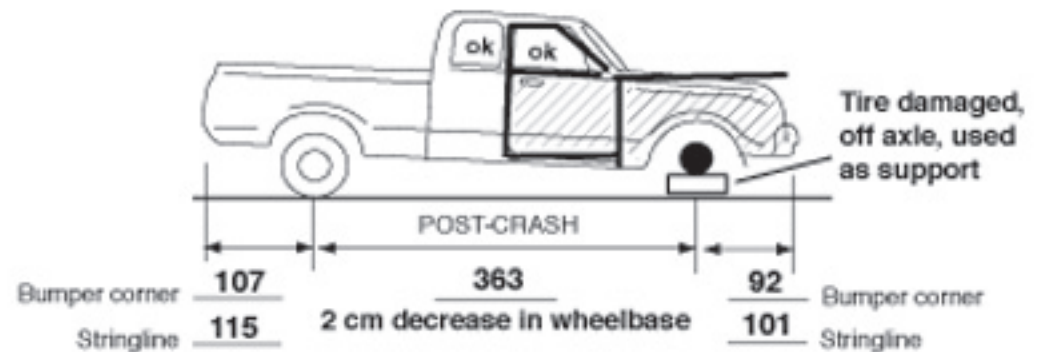
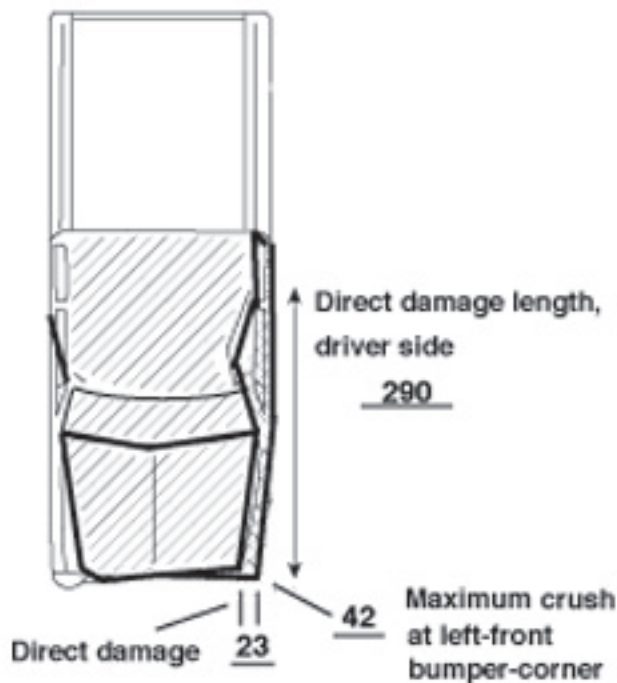
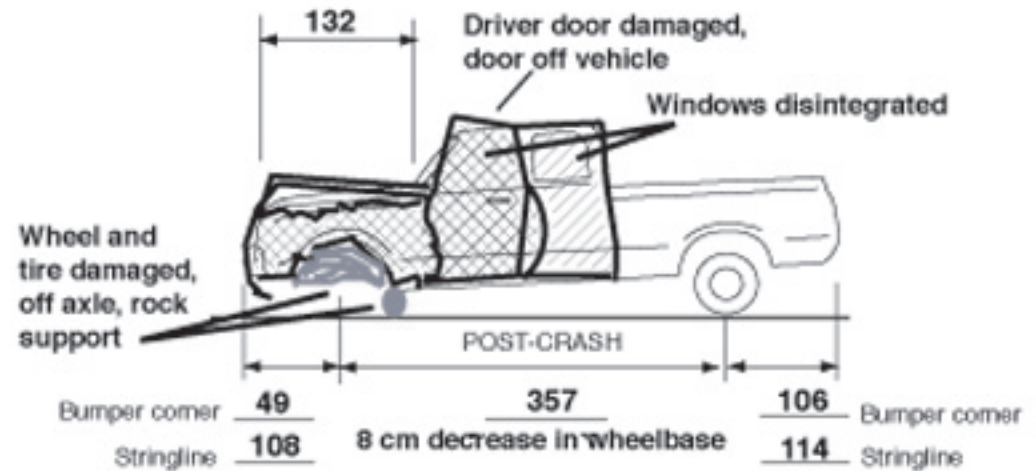
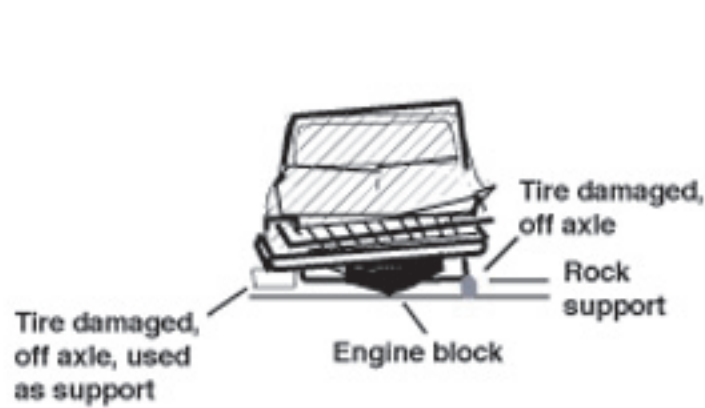


WINDSHIELD MARK ON CASE VEHICLE:

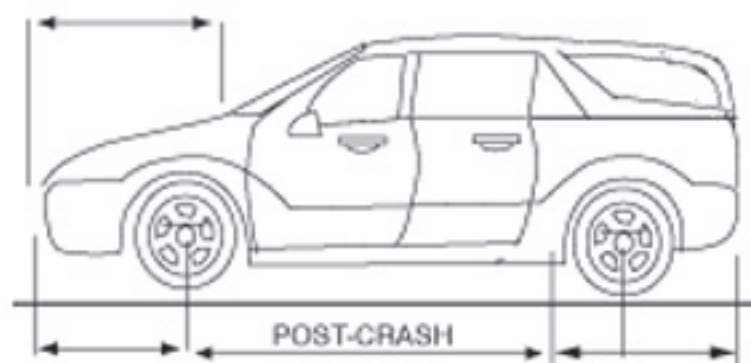
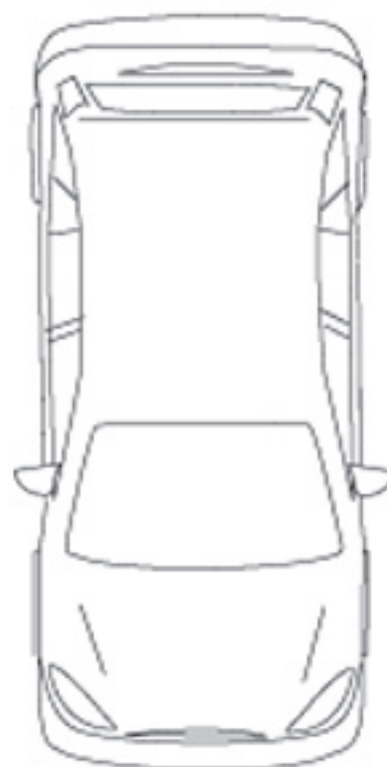


LAMINATED GS
DOT-22 AS1 M55
TRANS. 70% MIN.
GUARDIAN
....2
* . D :: S ..

MEASUREMENTS IN CENTIMETERS

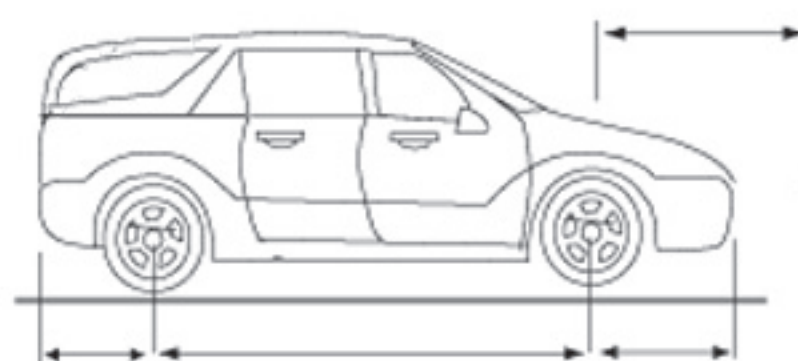


VEHICLE NOT INSPECTED
MEASUREMENTS IN CENTIMETERS



Bumper corner _____
Stringline _____

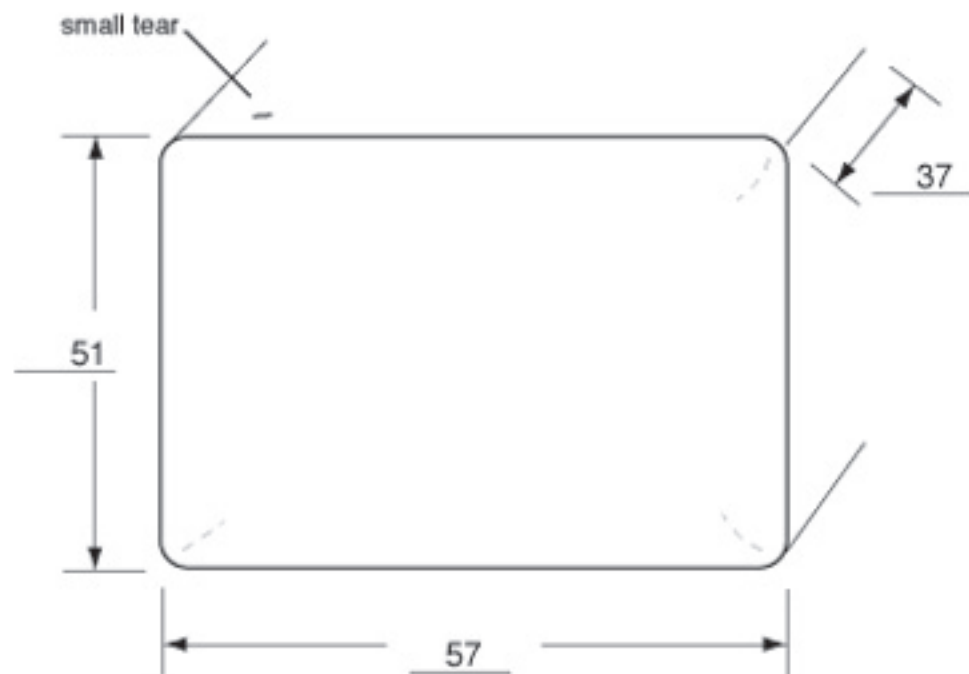
_____ Bumper corner
_____ Stringline



Bumper corner _____
Stringline _____

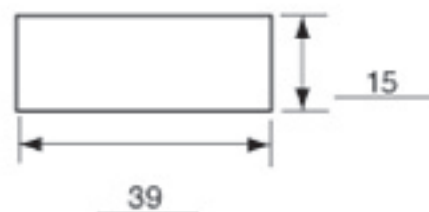
_____ Bumper corner
_____ Stringline

Passenger Airbag



Passenger Airbag Door

Single Door



Vents: ☒ Y ☐ N

if yes, how many: 2

@ 3 and 9 o'clock

Tethers: Y ☒ N

if yes, how many: _____

























































BRAKE RELEASE





PAKE RELEASE





BRAKE RELEASE















































































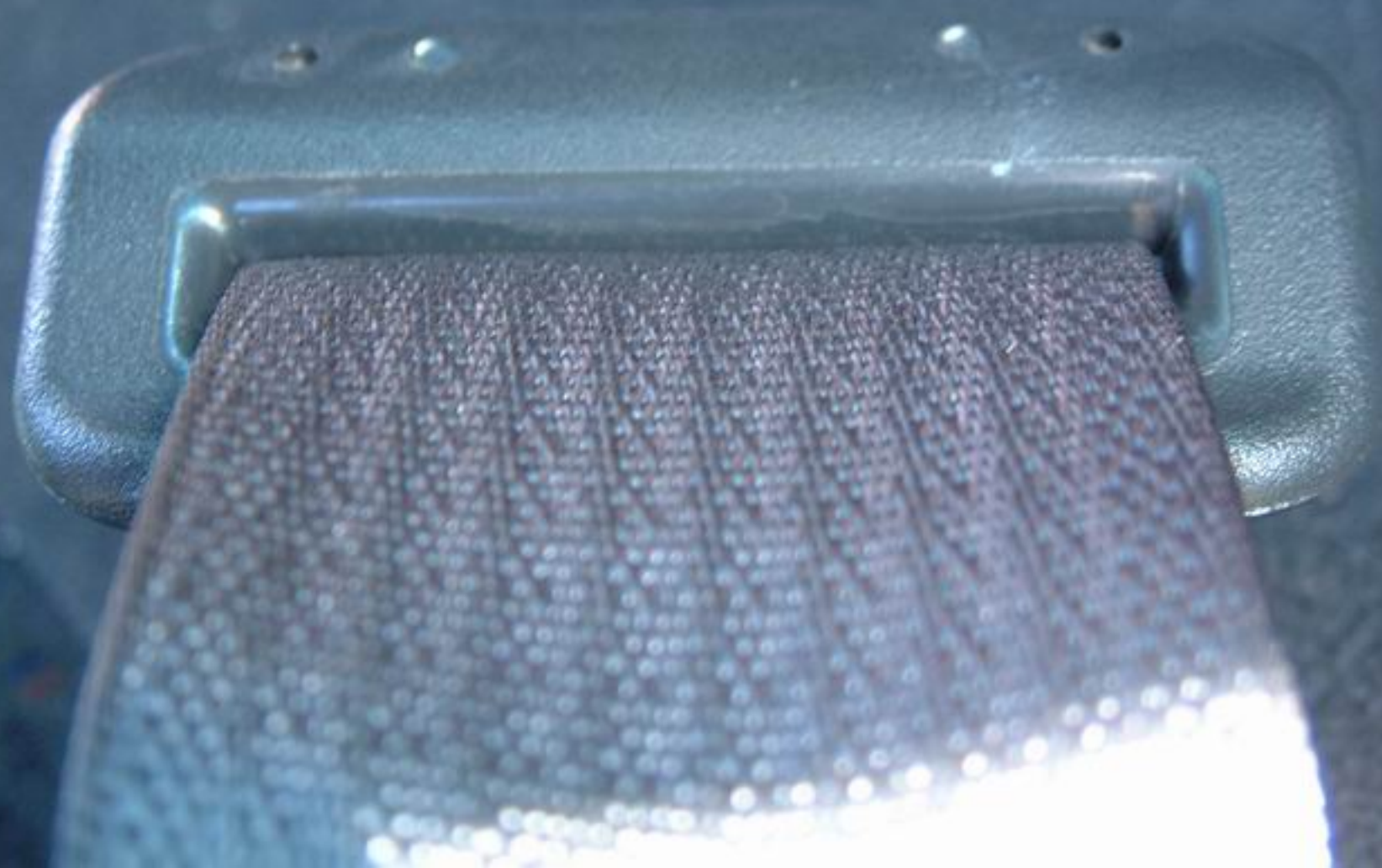












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